

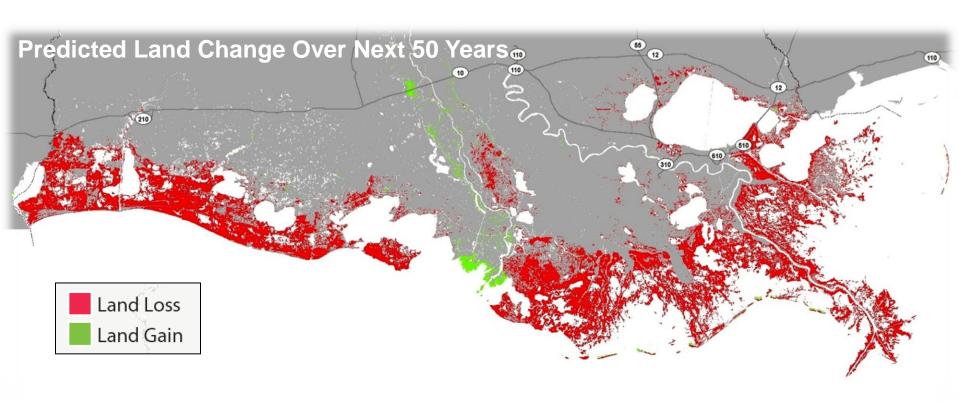
Louisiana's 2012 Coastal Master Plan



MASTER PLAN PUBLIC HEARINGS New Orleans, Houma, Lake Charles, LA January 23rd – 25th, 2012



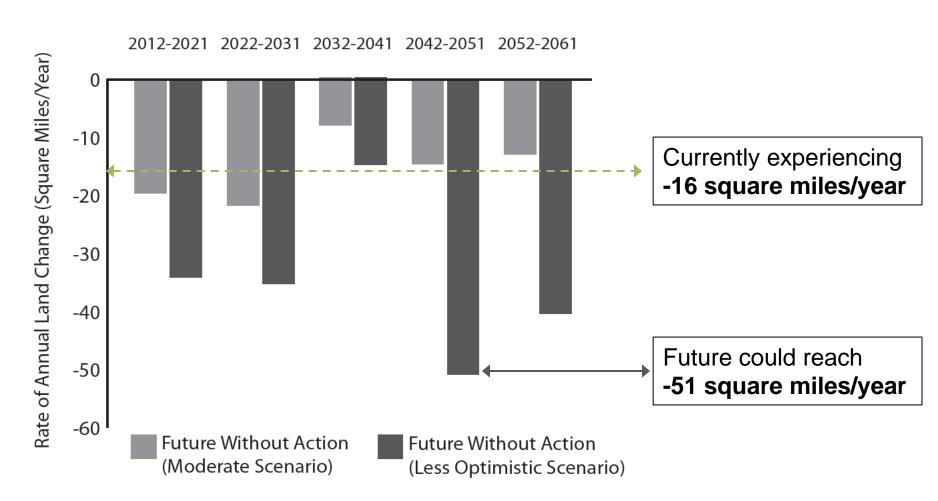
Louisiana is Experiencing a Coastal Crisis



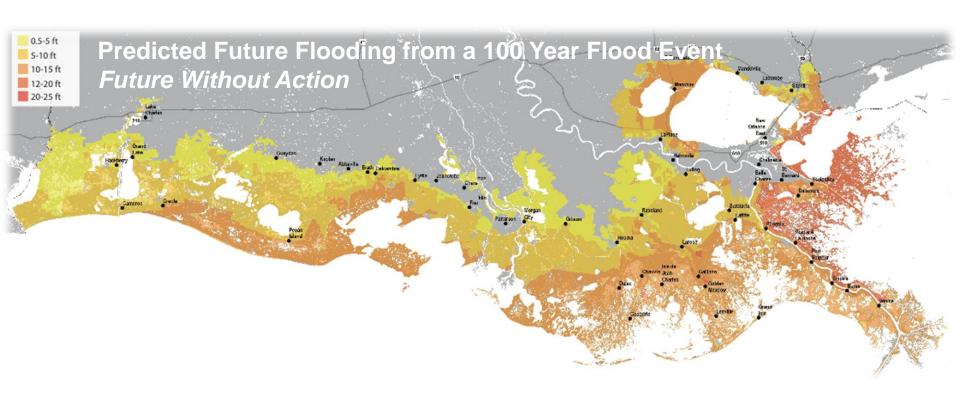
Potential to lose an additional 771 – 1,756 square miles of land over the next 50 years

Louisiana is Experiencing a Coastal Crisis

Predicted Annual Rates of Land Change with No Action over Next 50 Years



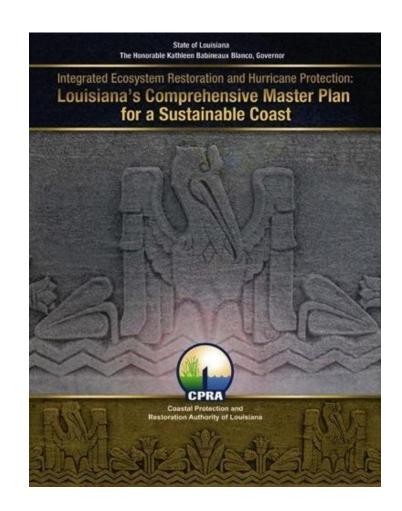
Our Communities and Livelihoods at Risk



Potential for expected annual damages to reach \$7.7 to \$23.4 billion

Why Do We Need Another Plan?

- Legislatively required five year update to the first coastal master plan published in 2007
- Builds on previous efforts



Master Plan Objectives

Flood Protection Reduce economic losses from storm-based

flooding

Natural Processes Promote a sustainable coastal ecosystem by harnessing the processes of the natural system

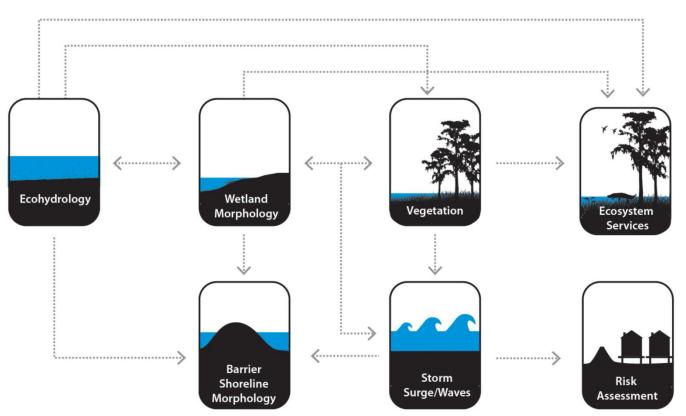
Coastal Habitats Provide habitats suitable to support an array of commercial and recreational activities coast wide

Cultural Heritage Sustain Louisiana's unique heritage and culture

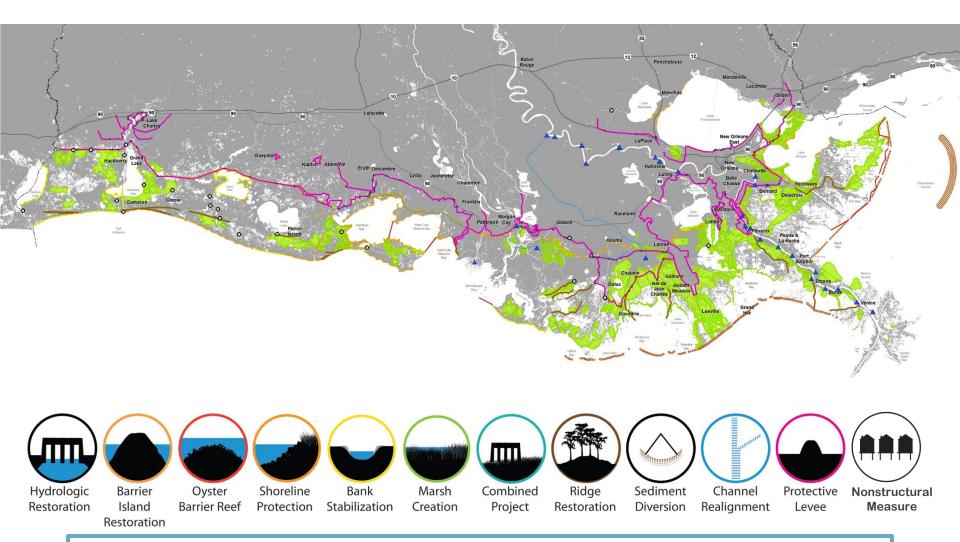
Working Coast Provide a viable working coast to support industry

Built on World Class Science and Engineering

- Based on a two-year analysis
- Involving some of the state's best scientists, as well as national and international specialists

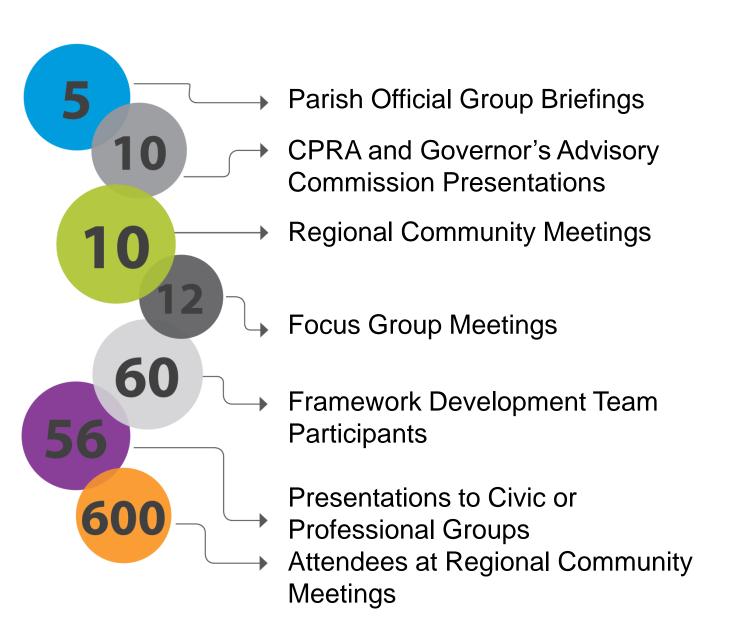


Evaluation of Hundreds of Existing Projects



Nearly 400 Projects Evaluated Across the Coast

Extensive Public Review and Input



120+
meetings with
citizens, focus groups
elected officials,
stakeholders, &
review teams







Key Decision Points

 Flood Risk Reduction and Land Built/Maintained as Decision Drivers





Key Decision Points

- Flood Risk Reduction and Land Building as Decision Drivers
- Set a Realistic Budget and Determine Funding Allocation – \$50 Billion, 50/50 split
- Balance Near Term and Long Term Benefits
- Use of Decision Criteria and Ecosystem Services

Factors in Making Decision

Risk Reduction Expected Annual Damages

Restoration Land Area

Decision Criteria and Ecosystem Services



Distribution of flood risk across socioeconomic groups



Flood protection of historic properties



Flood protection of strategic assets



Operation and maintenance costs



Sustainability



Support for navigation



Use of natural processes



Support for cultural heritage



Support for oil & gas



Oyster



Shrimp



Freshwater Availability



Alligator



Waterfowl



Saltwater Fisheries



Freshwater Fisheries



Carbon Sequestration



Nitrogen Removal



Agriculture/Aquaculture



Other Coastal Wildlife



Nature-Based Tourism

Summary

- Built on world class science and engineering
- Best use of our limited resources
- Identified investments that will pay off, not just for us, but for our children and grandchildren

State of Louisiana The Honorable Bobby Jindal, Governor



Louisiana's Comprehensive Master Plan for a Sustainable Coast

committed to our coast



DRAFT JAN 2012

State of Louisiana

The Honorable Bobby Jindal, Governor



Louisiana's Comprehensive Master Plan for a Sustainable Coast

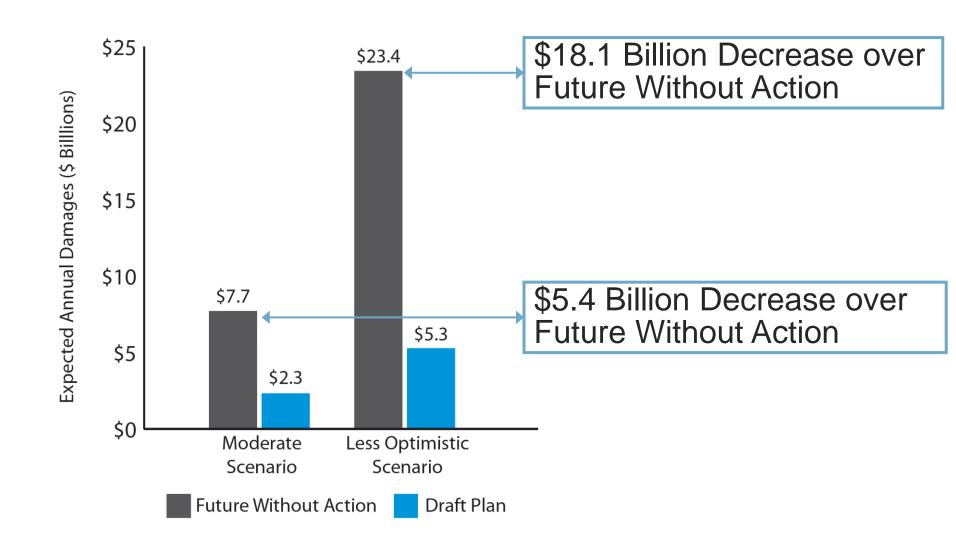
committed to our coast



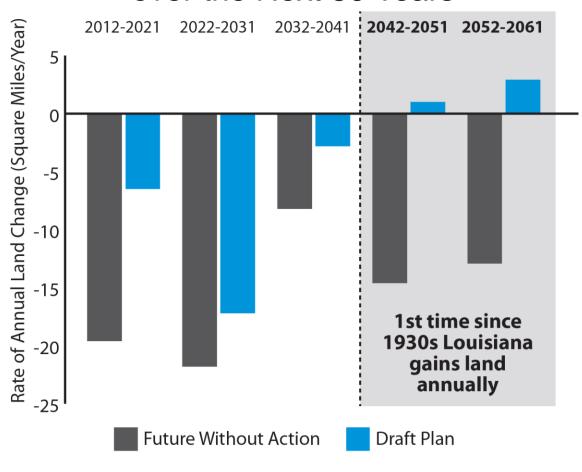
DRAFT JAN 2012

- Provide some level of protection for every coastal community
- Invests in restoring barrier islands, headlands, and shorelines as first lines of defense against storms





Potential Annual Rates of Land Change over the Next 50 Years



550-850 square miles of land built or maintained over 50 years

Robust Ecosystem Services

- Analysis found complex increases and decreases in ecosystem services
- Draft plan did not cause drastic changes to species specific habitats coast wide.
 - Shifts in location
 - Substantial level of habitats coast wide to support a wide array of coastal activities











Maintaining our Cultural Heritage

Overview:

 Analysis focused on assessing whether people are still able to utilize and access important natural resources and live in their traditional communities

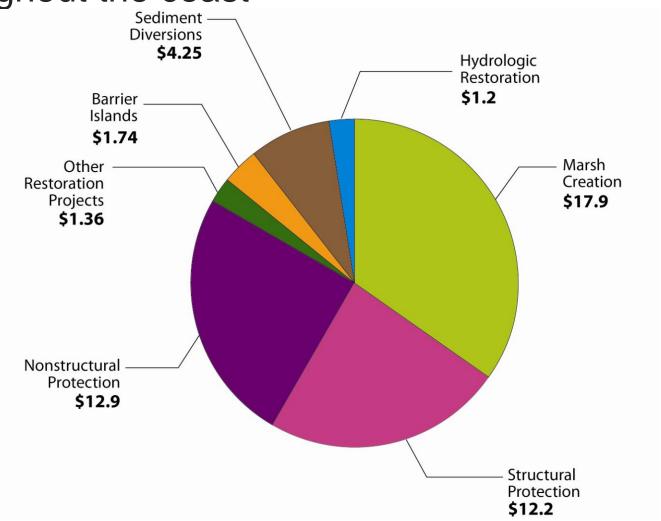
Results of the Analysis:

Results indicate an overall coast wide improvement over Future Without Action

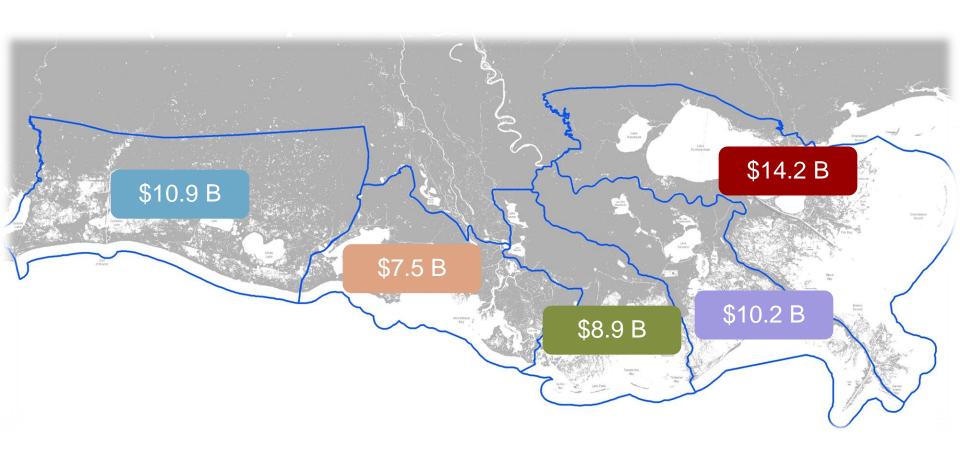
In no instance does the Draft Plan result in worsening conditions with respect to Future Without Action for a community

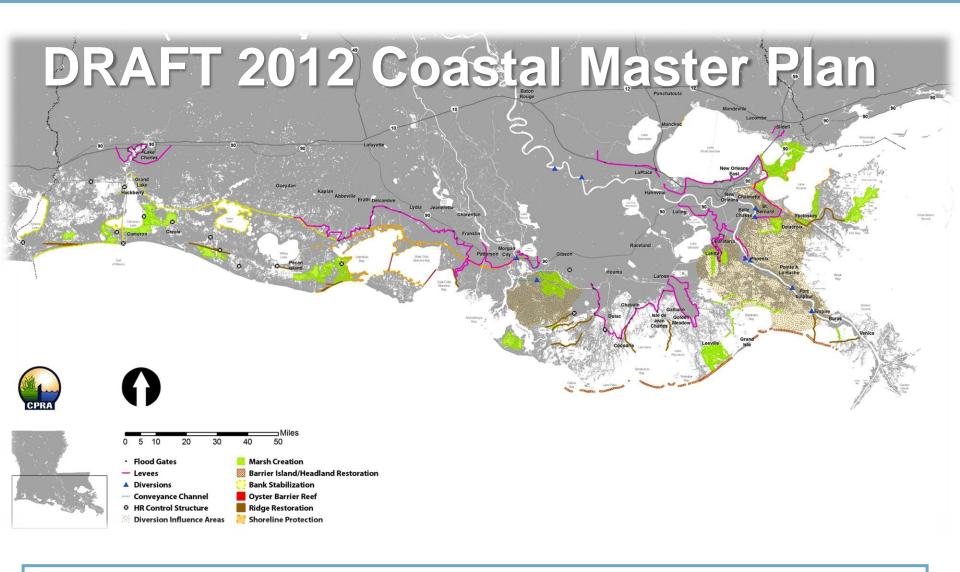
Positive increase in 42 out of the 50 communities analyzed

 Includes a wide variety of project types distributed throughout the coast



 Includes a wide variety of project types distributed throughout the coast





145 Projects Totaling Approximately \$50 Billion over 50 Years

A Closer Look: Southwest Coast

- Restoration: Restore wetlands and chenier ridges while limiting saltwater intrusion. Maintain and increase, where possible, the input of fresh water to maintain a balance among saline and fresh wetlands.
- Protection: Levees are proposed for the Lake Charles and Abbeville areas. Nonstructural measures are proposed for less populated areas. Restoration of chenier ridges and healthy wetlands contribute additional storm protection.



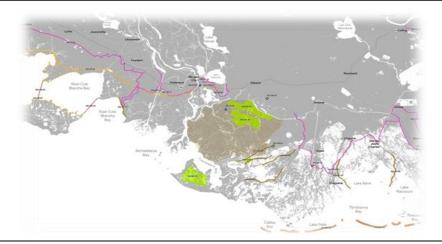
A Closer Look: Central Coast

- Restoration: Maintain the land building capacity of the Atchafalaya region, while increasing the use of sediment and water east to Terrebonne Parish to sustain the coastal ecosystem. Rebuild barrier islands and ridges.
- Protection: Levee protection is proposed for Morgan City, Houma, Franklin, and New Iberia. Nonstructural protection measures are proposed for less populated areas. Restoration of the barrier islands, marshes, and ridges contribute additional protection.



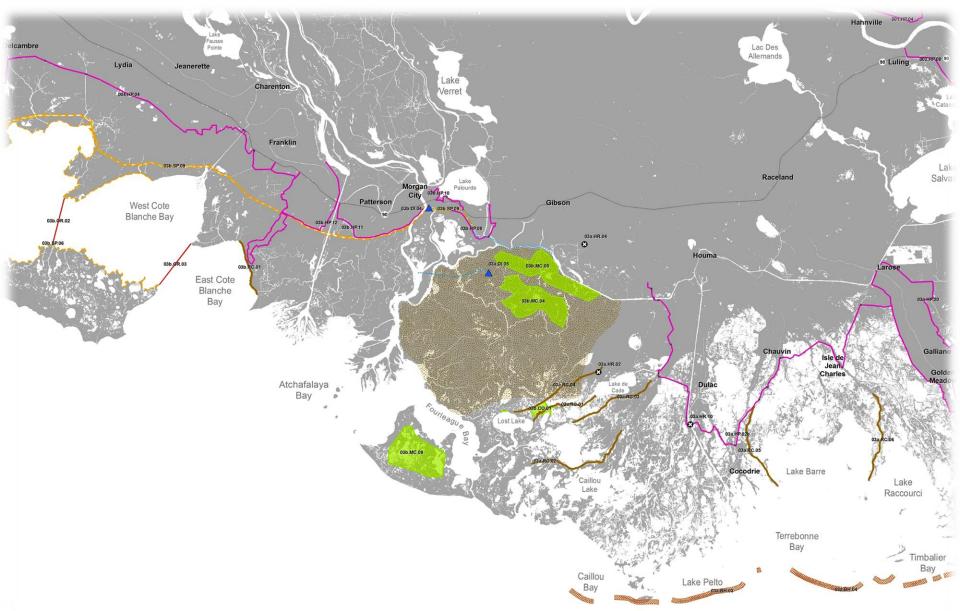
Master Plan Outcomes – Central Coast

- 32 miles of barrier island/headland projects
- 22 miles of shoreline protection projects
- 9,122 acres of marsh creation projects
- 955 acres or 79 miles in ridge restoration projects
- \$3.8 billion in nonstructural projects
- Nearly \$7 billion in structural protection projects



\$7 BILLION SPENT ON PROTECTION PROJECTS

A Closer Look: Central Coast



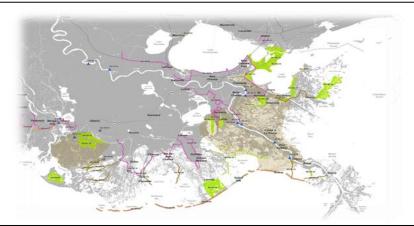
A Closer Look: Southeast Coast

 Restoration: Use sediment and water from the Mississippi River to maintain and rebuild land. Sustain a diversity of coastal habitats including cypress swamps, marshes, ridges, and barrier islands.

 Protection: Sustain key levee protection systems, such as Greater New Orleans area and Larose to Golden Meadow. New levees are proposed for larger, at risk communities, such as LaPlace and Slidell. Nonstructural protection measures are proposed for all parishes in the area.

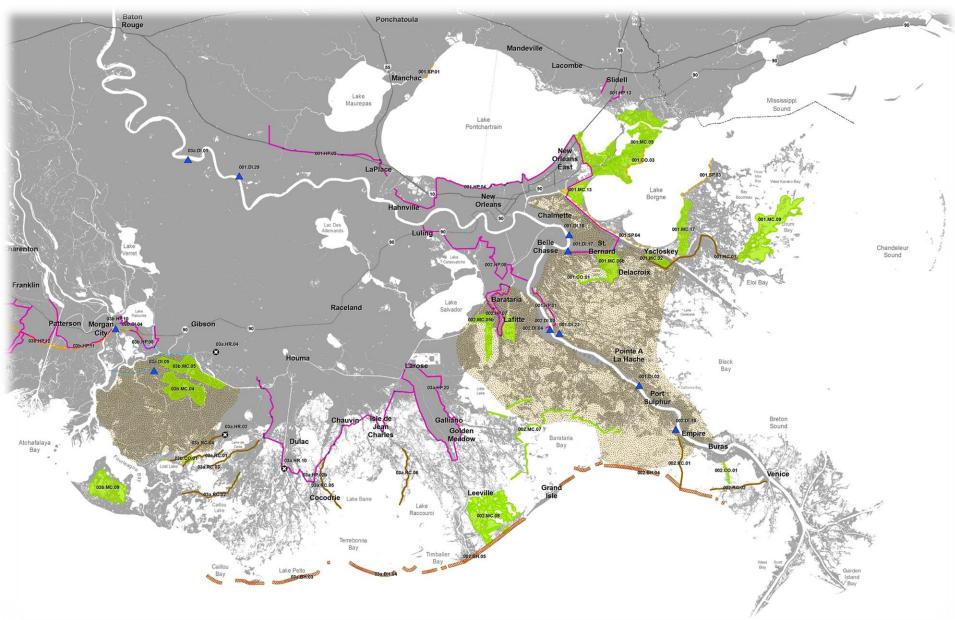
Master Plan Outcomes - Southeast Coast

- 84 miles of shoreline protection & ridge restoration projects
- 57,888 acres of marsh creation projects
- 18,041 acres or 40 miles of barrier island/headland projects
- \$2.2 billion on sediment diversions
- \$7.5 billion in nonstructural projects
- \$3.8 billion in structural protection projects

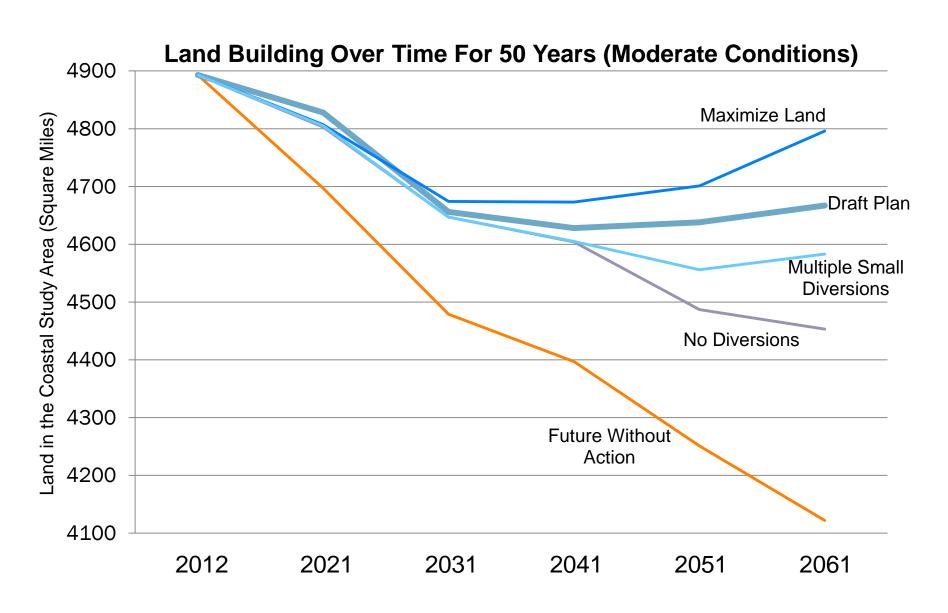


NEARLY 58,000 ACRES OF MARSH CREATION PROJECTS

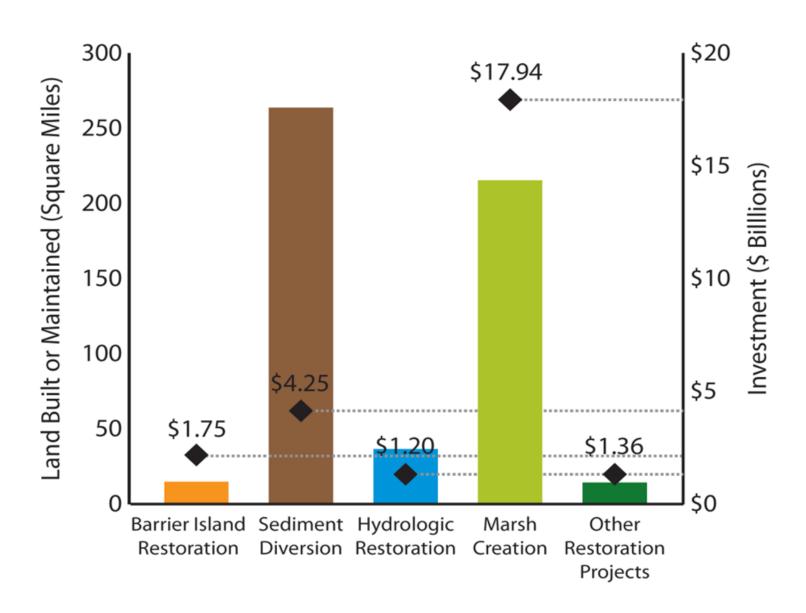
A Closer Look: Southeast Coast

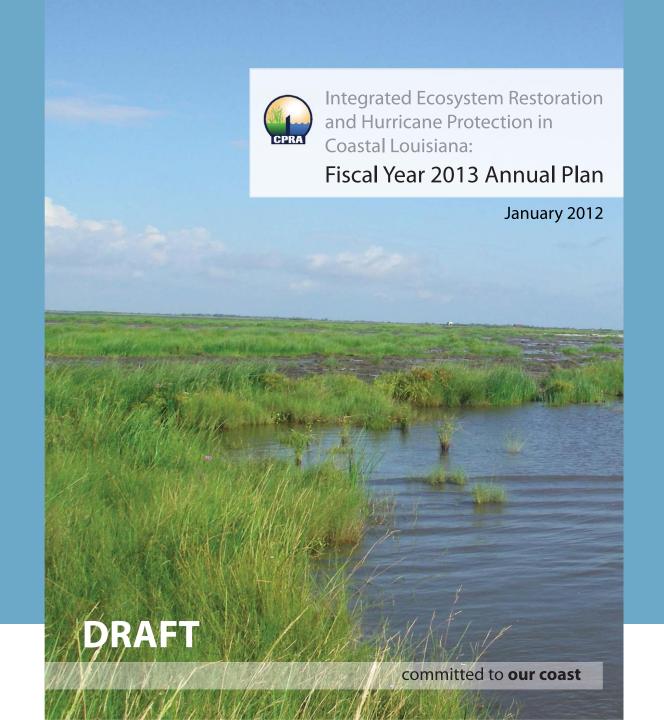


Land Building Experiments



Investing in Land Building

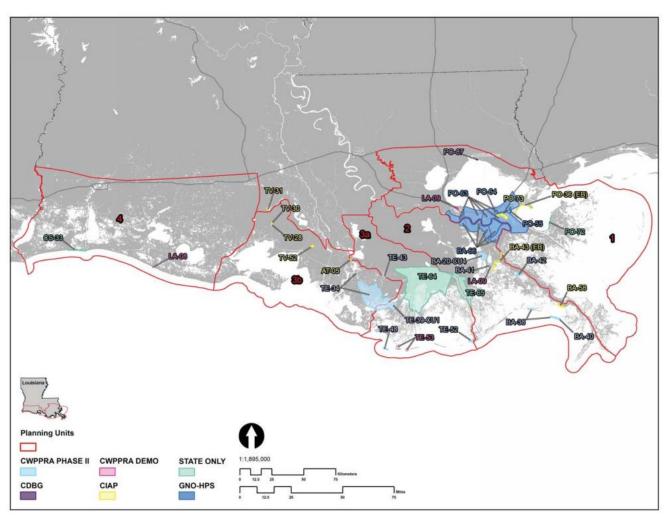




Legislative Guidance

- Act 8 of the 2005 1st Special Session created the Coastal Protection & Restoration Authority (CPRA).
- Act 8 directs the CPRA to prepare an Annual Coastal Protection and Restoration Plan for submission to the legislature.
- Act 523 requires the Annual Plan to include:
 - a three-year budget,
 - an implementation projection, and
 - a program progress assessment.

FY 2012: Projects in Construction

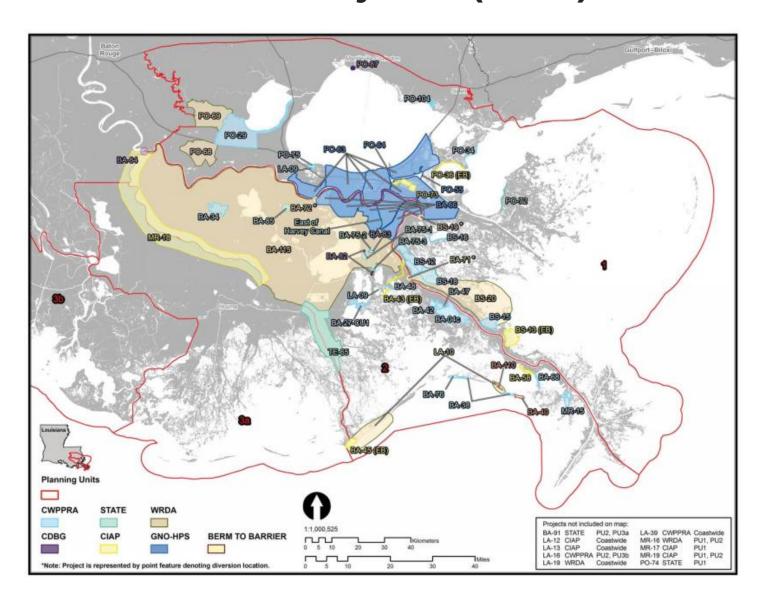


- 31 projects scheduled to begin or continue construction
- 6 projects
 scheduled to
 complete
 construction by
 end of FY 2012

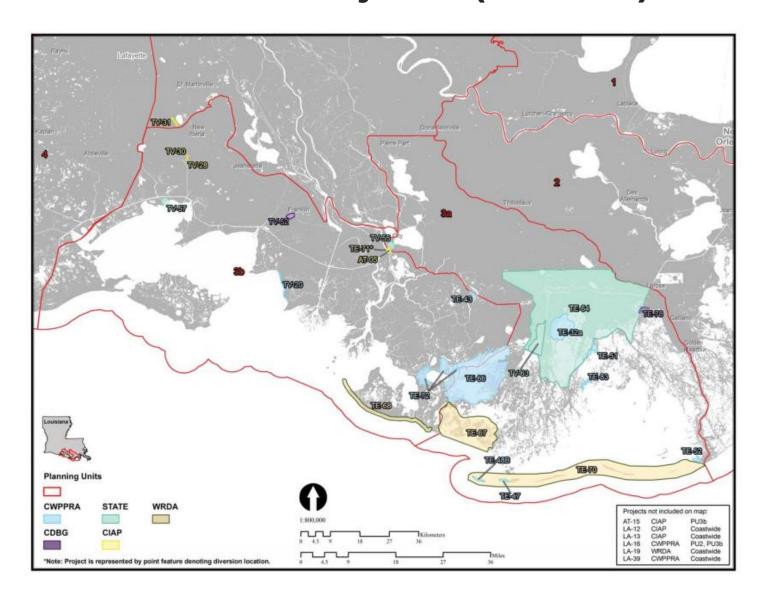
FY 2013 Implementation Plan

- Projects in planning in FY 2013: 9
- Projects in design in FY 2013: 26
- Projects in construction for FY 2013: 50
- Projects funded for O&M in FY 2013: 89
- Projects funded for monitoring in FY 2013: 51

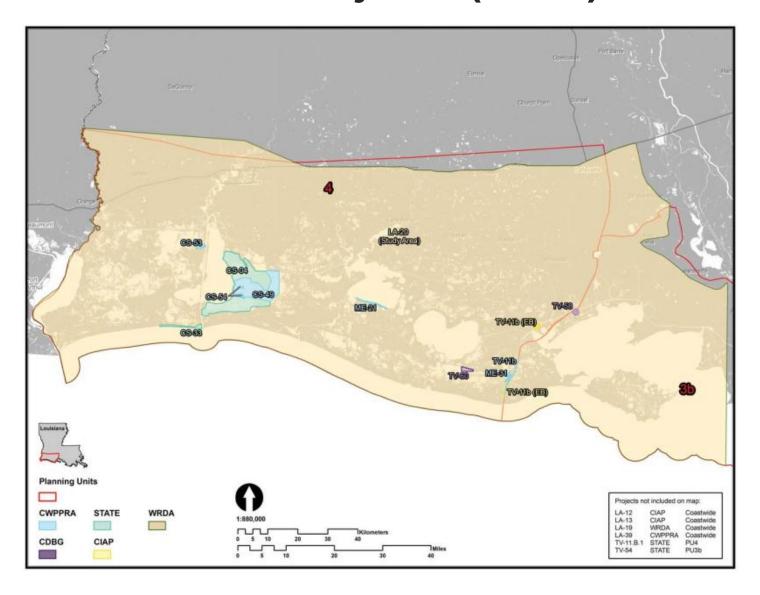
FY 2013: Active Projects (East)



FY 2013: Active Projects (Central)



FY 2013: Active Projects (West)



Projections: FY 2013 – FY 2015 (Schedules)

TABLE 4-8: Projected Three-Year Schedules for Active State-Only Projects (FY 2013 - FY 2015)

	Fiscal Year		2013			2014			2015				
	Quarter	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q
State ID	Project Name												
TE-65	Larose to Golden Meadow ^{1,2}	F											
CS-33	Cameron Parish Shoreline	C	C	C	F								
TE-64	Morganza to the Gulf ^{1,2}	C	C	C	F								
N/A	East of Harvey Canal Interim Flood Protection ^{1,3}	C	C	C	F								
P0-72	Biloxi Marsh	C	C	C	C	F							
BA-75-1	Jean Lafitte Tidal Protection ^{1,3}	В	C	C	C	F							
BA-85	St. Charles Parish West Bank Hurricane Protection Levee- Phase 11.3	C	C	C	C	C	F						
TV-55	Morgan City/ St Mary Flood Protection ¹	D	D	В	C	C	C	C	C	F			
BA-091	Bayou Lafourche Salt Water Control Structure	D	D	D	В	C	C	F					
BA-75-2	Rosethorne Tidal Protection ^{1,3}	D											
TV-57	Delcambre-Avery Canal (E&D)	D	D	D	D	D							
TV-54	South Central Coastal Plan	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р		
TV-11.B1	Acadiana to the Gulf of Mexico Access Channel ⁴	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
BA-75-3	Lafitte Tidal Protection ¹	0	0	0	0	0	0	0	0	0	0	0	0
CS-04a	Cameron Creole Maintenance	0	0	0	0	0	0	0	0	0	0	0	0
TV-56	Four-Mile Canal Storm Surge Reduction Construction 1.5.6												

Example
 Three-Year
 Schedule
 Projections

Legend

- 1 Project to be implemented by local parish/levee district.
- 2 Schedule represents State-funded construction only; local construction may continue beyond end date.
- 3 Project transferred from DOTD to CPRA.
- 4 Project involves planning support for a project to be constructed by LaDOTD and the USACE.
- 5 Project design to be funded by HMGP.
- 6 Project on hold pending results of modeling to determine appropriate structure location.

Peasibility & Planning

Engineering & Design

Completed Design Projects; Awaiting Construction Funding Construction

Both Design & Construction

Completed Const. Projects

Program Implementation

0 OM&M

Projections: FY 2013 – FY 2015 (Revenue)

TABLE 4-1: Projected Three-Year Revenues (FY 2013 - FY 2015)

Revenue Sources	FY 2013	FY 2014	FY 2015	Program Total (FY 2013 - FY 2015)	
CPR Trust Fund Annual Revenue ¹	\$33,971,465	\$35,000,000	\$35,000,000	\$103,971,465	
GOMESA ¹	\$222,725	\$222,725	\$222,725	\$668,175	
DOTD Interagency Transfer ¹	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000	
CIAP	\$60,108,888	\$99,766,854	\$21,180,512	\$181,056,254	
Surplus '07, '08, '09	\$367,982,795	\$92,992,151	\$2,867,485	\$463,842,431	
Hazard Mitigation Grant Program ²	\$83,000,000	\$0	\$0	\$83,000,000	
Community Development Block Grants	\$7,586,739	\$12,993,125	\$222,989	\$20,802,853	
Berm to Barrier ³	\$64,410,748	\$20,374,590	\$0	\$84,785,338	
NRDA Early Restoration ⁴	\$267,423,000	\$269,777,000	\$0	\$537,200,000	
LDNR Mitigation Funds⁵	\$768,564	\$0	\$0	\$768,564	
FEMA RiskMAP Funding ⁶	\$200,000	\$200,000	\$200,000	\$600,000	
FEMA Reimbursement for OM&M	\$1,025,000	\$0	\$0	\$1,025,000	
Project Billing	\$15,000,000	\$18,000,000	\$20,000,000	\$53,000,000	
Total Projected Revenue	\$905,699,924	\$553,326,445	\$83,693,712	\$1,542,720,080	

Notes:

- 1- Annually recurring revenue source.
- 2- HMGP project schedules are currently under development pending FEMA approval; HMGP funds will be allocated according to project schedules.
- 3- Berm to Barrier project schedules are currently under development and may be refined at a later date; funds will be distributed according to final project schedules.
- 4- Expenditures represent early restoration under the Early Restoration Framework Agreement announced on April 21, 2011 and are based on the Louisiana Plan announced by Governor Jindal in July 2011. Negotiations with BP are ongoing and Louisiana expects to receive additional (early and long-term) NRDA funds but, the timing of receipt of these funds is highly uncertain.
- 5- Used to partially fund TV-11B (EB).
- 6- Used to management of FEMA's RiskMAP program and to partially fund RiskMAP's outreach program.

Projections: FY 2013 – FY 2015 (Expenditures)

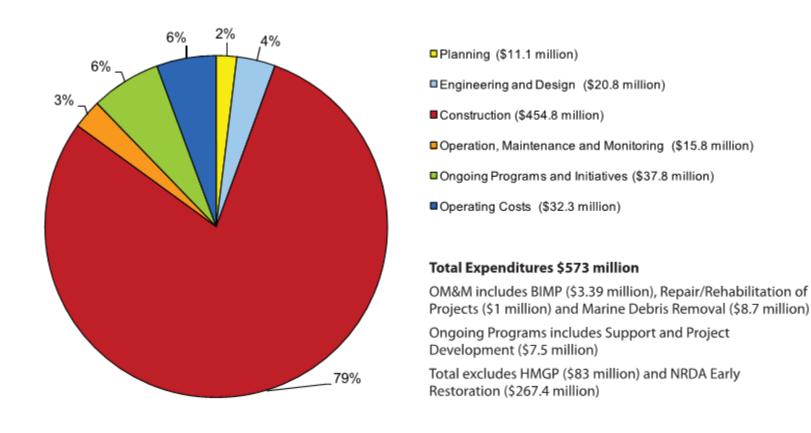
TABLE 4-2: Projected Three-Year Expenditures¹ (FY 2013 - FY 2015)

Program/Funding Source	FY 2013	FY 2014	FY 2015	Program Total (FY 2013 - FY 2015)	
CWPPRA Projects (not including Surplus expenditures) ²	\$12,833,540	\$20,000,000	\$20,000,000	\$52,833,540	
WRDA Projects (not including Surplus or CIAP expenditures)	\$7,535,524	\$4,049,931	\$2,975,767	\$14,561,222	
CIAP Projects and Programs (not including Surplus Expenditures)	\$60,108,888	\$99,766,854	\$21,180,512	\$181,056,254	
Surplus Projects and Programs	\$367,982,795	\$92,992,151	\$2,867,485	\$463,842,431	
Community Development Block Grants	\$7,586,739	\$12,993,125	\$222,989	\$20,802,853	
Hazard Mitigation Grant Program ³	\$83,000,000	\$0	\$0	\$83,000,000	
GNO-HPS 30-Year Payback ⁴	\$0	\$40,100,000	\$63,800,000	\$103,900,000	
State-Only Projects (Non-Surplus)	\$723,481	\$2,879,336	\$0	\$3,602,817	
Berm to Barrier	\$64,410,748	\$20,374,590	\$0	\$84,785,338	
NRDA Early Restoration ⁵	\$267,423,000	\$269,777,000	\$0	\$537,200,000	
LDNR Mitigation Expenditures ⁶	\$768,564	\$0	\$0	\$768,564	
OM&M- Projects (not including Surplus or CIAP expenditures)	\$9,830,530	\$13,910,951	\$7,762,337	\$31,503,818	
OM&M- Marine Debris Removal (FEMA)	\$1,025,000	\$0	\$0	\$1,025,000	
Support and Project Development	\$7,500,000	\$7,500,000	\$7,500,000	\$22,500,000	
Operating Costs (see Tables 4-3 and 4-4)	\$32,295,607	\$48,423,842	\$50,197,737	\$130,917,186	
Total Planned Expenditures	\$923,024,416	\$632,767,780	\$176,506,827	\$1,732,299,023	

Notes:

- 1- Represents proposed expenditures provided that commensurate level of funding is received.
- 2- Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2014 FY 2015 are therefore based on prior years' expenditures.
- 3- HMGP project schedules are currently under development pending FEMA approval; HMGP funds will be allocated according to project schedules.
- 4- Payback is based on current GNO-HPS construction schedule; payback will not commence until completion of GNO-HPS construction activities and consequently payback schedule may be revised at a later date.
- 5- Expenditures represent early restoration under the Early Restoration Framework Agreement announced on April 21, 2011 and are based on the Louisiana Plan announced by Governor Jindal in July 2011. Negotiations with BP are ongoing and Louisiana expects to receive additional (early and long-term) NRDA funds but, the timing of receipt of these funds is highly uncertain.
- 6- Used to partially fund TV-11B (EB).

Projections: FY 2013 Expenditures by Phase









Public Comment Period

Next Steps – Master Plan and Annual Plan

- JAN 23-25 Public Meetings
- FEB 25 Public Comment Period Ends
- MAR 21 CPRA Reviews Final Plans
- MAR 26 Plans Submitted to Legislature



How to Submit Public Comments

- Submit public statement request form and speak tonight
- Submit comments in writing today
- Mail your comments to:
 The Coastal Protection and Restoration Authority
 P.O. Box 44027
 Baton Rouge, LA 70804
- Submit comments online at: coastalmasterplan.la.gov
- Email us at: masterplan@la.gov



Public Comments

- In order to speak, please turn in a public request statement form. Please raise your hand if you need one
- Public comments will be limited to 3 minutes
 - 1 minute, 30 second, and Times Expired cards will be displayed



Public Comments

